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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER BCR-012.1P US U.S. APPLICATION NO. (If known, see 37 CFR 1.5) to be assigned 10/566303
INTERNATIONAL APPLICATION NO. PCT/US2004/024789	INTERNATIONAL FILING DATE August 2, 2004	PRIORITY DATE CLAIMED August 1, 2003
TITLE OF INVENTION <div style="text-align: center;">OPTICAL RESONANCE ANALYSIS UNIT</div>		
APPLICANT(S) FOR DO/EO/US David H. TRACY, Jennifer M. BROCKMAN, Keith S. FERRARA, Martin SHENKER, Robert KERSTEN, Steven E. COHEN, Gary BODLEY, Patrick TUXBURY, Paul HETHERINGTON, Enrico PICOZZA		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAF5 Rec'd PCT/PTO 27 JAN 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) to be assigned 10/566303	INTERNATIONAL APPLICATION NO. PCT/US2004/024789	ATTORNEY'S DOCKET NUMBER BCR-012.1P US										
20. Other items or information: Copy of PCT Notification of the Recording of a Change, Form PCT/IB/306												
The following fees have been submitted		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:60%;">CALCULATIONS</th> <th style="width:40%;">PTO USE ONLY</th> </tr> </table>	CALCULATIONS	PTO USE ONLY								
CALCULATIONS	PTO USE ONLY											
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 300.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 300.00									
\$ 300.00												
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 200.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 200.00									
\$ 200.00												
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 100.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 100.00									
\$ 100.00												
TOTAL OF 21, 22 and 23 =		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">600.00</td> <td style="width:40%;"></td> </tr> </table>	600.00									
600.00												
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;"></td> <td style="width:40%;"></td> </tr> </table>										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">Total Sheets</th> <th style="width:15%;">Extra Sheets</th> <th style="width:35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width:35%;">RATE</th> </tr> <tr> <td>48 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	48 - 100 =	0 /50 =	0	x \$250	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">0.00</td> <td style="width:40%;"></td> </tr> </table>		0.00	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE									
48 - 100 =	0 /50 =	0	x \$250									
0.00												
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$</td> <td style="width:40%;"></td> </tr> </table>	\$									
\$												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">CLAIMS</th> <th style="width:15%;">NUMBER FILED</th> <th style="width:15%;">NUMBER EXTRA</th> <th style="width:35%;">RATE</th> </tr> <tr> <td>Total claims</td> <td>26 - 20 =</td> <td>6</td> <td>x \$ 50</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	26 - 20 =	6	x \$ 50	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 300.00</td> <td style="width:40%;"></td> </tr> </table>		\$ 300.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE									
Total claims	26 - 20 =	6	x \$ 50									
\$ 300.00												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">Independent claims</th> <th style="width:15%;">NUMBER</th> <th style="width:15%;">RATE</th> </tr> <tr> <td>1 - 3 =</td> <td>0</td> <td>x \$200</td> </tr> </table>	Independent claims	NUMBER	RATE	1 - 3 =	0	x \$200	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 0.00</td> <td style="width:40%;"></td> </tr> </table>		\$ 0.00			
Independent claims	NUMBER	RATE										
1 - 3 =	0	x \$200										
\$ 0.00												
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360												
TOTAL OF ABOVE CALCULATIONS =		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 900.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 900.00									
\$ 900.00												
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;"></td> <td style="width:40%;"></td> </tr> </table>										
SUBTOTAL =		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 900.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 900.00									
\$ 900.00												
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$</td> <td style="width:40%;"></td> </tr> </table>	\$									
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TOTAL NATIONAL FEE =		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 900.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 900.00									
\$ 900.00												
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$</td> <td style="width:40%;"></td> </tr> </table>	\$									
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TOTAL FEES ENCLOSED =		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$ 900.00</td> <td style="width:40%;"></td> </tr> </table>	\$ 900.00									
\$ 900.00												
Amount to be refunded:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$</td> <td style="width:40%;"></td> </tr> </table>	\$									
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Amount to be charged		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">\$</td> <td style="width:40%;"></td> </tr> </table>	\$									
\$												

10/566303

PTO-1390 (Rev. 07-2005)

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- a. ☒ A check in the amount of \$ 900.00 to cover the above fees is enclosed. (Check no.: 6800)
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0268. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Leon R. Yankwich, Esq.

Yankwich & Associates, P.C.

201 Broadway

Cambridge, MA 02139


SIGNATURE

David G. O'Brien

NAME

46,125

REGISTRATION NUMBER

10/566303

IAP5 Rec'd PCT/PTO 27 JAN 2006

**PATENT COOPERATION TREATY
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE**

Application of:	Tracy et al.	
Serial No.:	(not yet assigned)	Art Unit: not yet assigned
Filed:	(concurrently herewith)	Examiner: not yet assigned
Entitled:	OPTICAL RESONANCE ANALYSIS UNIT	

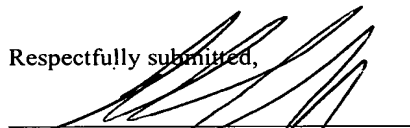
U.S. national stage of Int'l Appln. PCT/US2004/0024789, filed August 2, 2004, designating the US
Attorney Docket No.: BCR-012.1P US

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NATIONAL STAGE APPLICATION TRANSMITTAL:

1. Designated/Elected Office (DO/EO/US) Transmittal Form PTO-1390 (3 pages);
2. Duplicate copy Transmittal Form PTO-1390 page 2 fee calculation/authorization;
3. A second copy of International Application as published under 35 U.S.C. 154(d)(4) (48 pages);
4. Executed Associate Power of Attorney (1 sheet);
5. Copy of executed PCT Declaration of Inventorship (3 pages);
6. Copy of PCT Notification of the Recording of a Change, Form PCT/IB/306 (1 sheet);
7. Check No. 6800 in the amount of \$ 900.00 to cover the national application filing fees; and
8. Return Receipt Postcard.

Respectfully submitted,

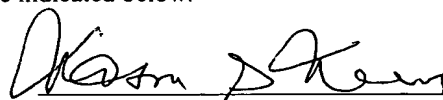

Leon R. Yankwich, Reg. No. 30,237
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Attorneys for Applicant
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201 Broadway
Cambridge, Massachusetts 02139
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telecopier: 617-374-0055

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

The undersigned hereby certifies that this correspondence and accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR §1.10, postage prepaid, Express Mailing Label No. **EV 509622615 US**, in an envelope addressed to the **Mail Stop PCT**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

January 27, 2006

Date


Nasim G. Memon